



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification <sup>7</sup> : <b>C12Q 1/68</b>	<b>A2</b>	(11) International Publication Number: <b>WO 00/18954</b> (43) International Publication Date: 6 April 2000 (06.04.00)
<p>(21) International Application Number: PCT/CA99/00895</p> <p>(22) International Filing Date: 27 September 1999 (27.09.99)</p> <p>(30) Priority Data: 2,245,903 28 September 1998 (28.09.98) CA</p> <p>(71) Applicant (for all designated States except US): MCGILL UNIVERSITY [CA/CA]; Office of Technology Transfer, 845 Sherbrooke Street West, Montréal, Québec H3A 2T5 (CA).</p> <p>(72) Inventors; and (75) Inventors/Applicants (for US only): KARAPLIS, Andrew, C. [CA/CA]; 95 Meaney, Kirkland, Québec H9J 3V6 (CA). GOLTZMAN, David [CA/CA]; 667 Belmont, Westmount, Québec H3Y 2W3 (CA). LIPMAN, Mark, L. [CA/CA]; 2258 Fulton Road, Town of Mount Royal, Québec H3R 2L4 (CA). HENDERSON, Janet, E. [CA/CA]; 70 Woseley, Montreal West, Québec H4X 1V7 (CA).</p> <p>(74) Agents: COTE, France et al.; Swabey Ogilvy Renault, Suite 1600, 1981 McGill College Avenue, Montréal, Québec H3A 2Y3 (CA).</p>		<p>(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).</p> <p><b>Published</b> Without international search report and to be republished upon receipt of that report.</p>

(54) Title: USE OF PEX IN THE TREATMENT OF METABOLIC BONE DISEASES

## (57) Abstract

The present invention relates to a method for the diagnosis of metabolic bone diseases in a patient, which comprises the step of determining the level of PTHrP in a biological sample of a patient wherein an alteration of PTHrP levels from that of a normal individual is indicative of metabolic bone diseases and/or metabolic bone diseases predisposition. The present invention also relates to a method for the diagnosis of metabolic bone diseases in a patient, which comprises the step of determining the level of PTHrP in a biological sample of a patient wherein an alteration of PTHrP levels from that of a normal individual is indicative of metabolic bone diseases and/or metabolic bone diseases predisposition.